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FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
01/07/2002	Leonard E. Frey	END920010075US1	2893
90 05/10/2004		EXAM	INER
John R. Pivnichny, Ph.D		CHANNAVAJJALA, SRIRAMA T	
n, N50/040-4			
et .		ART UNIT	PAPER NUMBER
Endicott, NY 13760		2177	3
		DATE MAILED: 05/10/200-	4
	01/07/2002 90 05/10/2004 hny, Ph.D n, N50/040-4	01/07/2002 Leonard E. Frey 00 05/10/2004 hny, Ph.D n, N50/040-4 et	01/07/2002 Leonard E. Frey END920010075US1  00 05/10/2004 EXAM hny, Ph.D CHANNAVAJJAI et 13760 2177

Please find below and/or attached an Office communication concerning this application or proceeding.

S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Acti	on Summary	Part of Paper No./Ma	
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing and Information Disclosure Statement(s) (PTO Paper No(s)/Mail Date 2.	Review (PTO-948) D-1449 or PTO/SB/08)	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-152	2)
<ul><li>3. Copies of the certified application from the Ir</li><li>* See the attached detailed Offi</li></ul>	nternational Bureau	(PCT Rule 17.2(a)).	n received in this National Sta	ige
2. Certified copies of the				
1. Certified copies of the			A maltination At	
a) ☐ All b) ☐ Some * c) ☐ No				
12) Acknowledgment is made of		priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
Priority under 35 U.S.C. § 119				
11)☐ The oath or declaration is ob	jected to by the EXA	ininier. Note the aπach	ed Office Action of form PTO-	152.
			g(s) is objected to. See 37 CFR 1	
Applicant may not request that		<del>-</del>	• • •	
10)☐ The drawing(s) filed on		oted or b) Objected to		
9) The specification is objected	to by the Examiner.			
Application Papers				
8) Claim(s) are subject t	to restriction and/or	election requirement.		
7) Claim(s) is/are object		alaatta a oo oo to		
6)⊠ Claim(s) <u>1-19</u> is/are rejected				
5) Claim(s) is/are allowed				
4a) Of the above claim(s)	• •	n from consideration.		
4)⊠ Claim(s) <u>1-19</u> is/are pending	in the application.			
Disposition of Claims				
closed in accordance with the	ne practice under Ex	parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
3) Since this application is in c	ondition for allowand	ce except for formal ma	atters, prosecution as to the mo	erits is
2a)☐ This action is <b>FINAL</b> .		action is non-final.		
1) Responsive to communication	on(s) filed on <u>07 Jar</u>	nuary 2002.		
Status				
THE MAILING DATE OF THIS CO  - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date of the period for reply specified above, the normal from the mailing date of the second of t	OMMUNICATION.  provisions of 37 CFR 1.136  of this communication.  nan thirty (30) days, a reply naximum statutory period will  od for reply will, by statute, communications are seen to the mailing of	i(a). In no event, however, may within the statutory minimum of the lapply and will expire SIX (6) MC cause the application to become	a reply be timely filed  nirty (30) days will be considered timely.  DNTHS from the mailing date of this comm  ABANDONED (35 U.S.C. § 133).	unication.
A SHORTENED STATUTORY PE		IS SET TO EXPIRE 3	MONTH(S) FROM	
Period for Reply	communication appe	ears on the cover sheet	with the correspondence addre	SS
		Srirama Channavajjala	2177	
Office Action Summary	nary	Examiner	Art Unit	
		10/040,799	FREY ET AL.	
	1		FAC. / FT	

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#### **DETAILED ACTION**

#### **Drawings**

1. The drawings filed on 1/7/2002 are accepted for examination purpose.

### **Information Disclosure Statement**

2. The information disclosure statement filed on 1/7/2002, paper no. # 2 has been considered and a copy was enclosed with this office action, paper no. # 3.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claims 1-2, 4,6-9,11,13-16,18-19 are rejected under 35 U.S.C. 102(a) as being anticipated by Draper et al., [hereafter Draper], US Patent No. 6192365.
- 4. As to Claims 1,8,15, Draper teaches a system which including 'processing transactions' [col 2, line 49-51], processing transactions corresponds to managing transaction in a network as detailed in col 2, line 49-51;

'providing a plurality of processing databases each having a respective agent' [fig 2, col 5, line 6-13, co 6, line 5-8], plurality of processing databases corresponds to fig 2, elements28, 40, and their respective agent corresponds to fig 2, element 44 as detailed in fig 2;

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'providing a transaction database' [col 3, line 16-21], transaction database corresponds to transactions in the transaction log as detailed in col 3, line 16-21;

'writing one or more transactions, each having a key and a detail, from a first of said plurality of processing databases to said transaction database' [col 13, line 25-30];

'periodically searching, using a processing agent from a second of said plurality of processing databases' [col 13, line 42-46,col 14, line 49-51]; 'transaction database for a key and detail to determine whether said processing agent should process said one or more transactions' [col 14, line 52-63];

'updating a record in said second of said plurality of processing databases, by using said key and detail' [col 13, line 46-49, line 53-58].

- 5. As to Claim 2,9,16, Draper teaches a system which including 'transaction database is a messaging database' [see fig 2, col 12, line 24-26].
- 6. As to Claim 4, 11,18, Draper teaches a system which including 'one or more transactions has a processor designation specifying which of said plurality of processing databases is affected by said each of said one or more transactions' [col 5, line 26-37].
- 7. As to Claims 6,13, Draper teaches a system which including 'transferring said one or more transactions from said transaction database to said second of said plurality of processing databases prior to said step of updating a record' [col 13, line 20-24, line 25-36].

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8. As to Claims 7,14,19, Draper teaches a system which including 'setting a status flag in said one or more transactions' [col 28, line 38-41].

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claims 3,5,10,12,17, are rejected under 35 U.S.C. 103(a) as being unpatentable over Draper et al., [hereafter Draper], US Patent No. 6192365 as applied to claim1, 8,15 above, and further in view of Bowen et al., [hereafter Bowen], US Patent No. 6094649.

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10. As to Claim 3, 10Draper teaches a system which including 'transaction database, plurality of processing databases' [see fig 2]. It is however, noted that Draper does not specifically teach 'LOTUS NOTES database'. On the other hand, Bowen disclosed "LOTUS NOTES database' [col 11, line 42-44].

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Bowen et al. into transaction log management of Draper et al. because both are directed to managing database records in a distributed network, both are directed to indexing records [see Draper: col 25, line 1-8; Bowen: fig 2, element 212, 214], more specifically Draper is directed to managing transaction log containing updates that represents operations performed on a database replica in a network [see Abstract]; while Bowen is directed to keyword searching in a structured databases, more specifically selected data records are retrieved using query mechanism as detailed in Abstract. One of the ordinary skill in the art at the time of applicant's invention would have been motivated to combine the references because that would have allowed uses of Draper to use indexing agent that associated with keywords to search specific transaction related information from multiple relational and other databases to satisfy his or her needs, thus improving database management system using Lotus Notes as suggested by Bowen et al., [col 4, line 4-10].

11. As to Claim 5, 12,17, Bowen disclosed 'key includes a wildcard character' [col 5, line 59-65].

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#### Conclusion

### The prior art made of record

a. US Patent No. 6192365

b. US Patent No. 6094649

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure

c. US Patent No. 5890163

d. US Patent No. 5907848

e. US Patent No. 6081810

f. US Patent No. 6141659

g. US Patent No. 6192377

h. US Patent No. 6591299

I. US Patent No 6341169

J. US Patent No 2002/0194007

K. US Patent No 2001/0051899

I. Quinton Z et al., « Data synchronization of

portablemobile devices in a distributed database systems "Lotus Dvelopment corporation, pp 1-9.

m. C.Mohan et al., « Evolution of groupware for business applications : a database perspective on lotus domino/Notes », proceedings of the 26<sup>th</sup> VLDB conference, September 2000, pp 684-687

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srirama Channavajjala whose telephone number is (703) 308-8538. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM Eastern Time. The TC2100's Customer Service number is (703) 306-5631.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene, can be reached on (703) 305-9790. The fax phone numbers for the organization where the application or proceeding is assigned are as follows:

703/746-7238	(After Final Communication)
703/872-9306	(Offical Communications)
703/746-7240	(For Status inquiries, draft communication)

Any inquiry of general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-9600.

sc Patent Examiner.
May 5, 2004.